

Safety Data Sheet

Product : **CARE 10 (Small receptacle)**

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MSDS Nr : 302-00-2005BOC(A)

Version : 1

Date : 04/07/2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name CARE 10 (Small receptacle)
Company identification see heading and/or footer
Emergency phone numbers see heading and/or footer

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation Substance.
Components/Impurities Contains Isobutane (R600a) {F+;R12} {EINECS No. 200-857-2}
CAS Nr 75-28-5

3 HAZARDS IDENTIFICATION

Hazards identification Extremely flammable
Liquefied gas

4 FIRST AID MEASURES

Inhalation In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

Skin/eye contact In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing.
Immediately flush eyes thoroughly with water for at least 15 minutes.
Obtain medical assistance

Ingestion Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES

Specific hazards Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products Incomplete combustion may form carbon monoxide.

Suitable extinguishing media All known extinguishants can be used.

Specific methods If possible, stop flow of product.
Move away from the container and cool with water from a protected position.
Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.

Special protective equipment for fire fighters Use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate area.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
Ensure adequate air ventilation.
Eliminate ignition sources.

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Environmental precautions Try to stop release.
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Clean up methods Ventilate area.
Keep area evacuated and free from ignition sources until any spilled liquid has evaporated.
(Ground free from frost).

7 HANDLING AND STORAGE

Handling and storage Ensure equipment is adequately earthed.
Suck back of water into the container must be prevented.
Purge air from system before introducing gas.
Do not allow backfeed into the container.
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
Keep away from ignition sources (including static discharges).
Segregate from oxidant gases and other oxidants in store.
Refer to supplier's container handling instructions.
Keep container below 50°C in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value for country UK: LTEL: 600ppm; STEL: 750ppm (EH40/2002)

Personal protection Protect eyes, face and skin from liquid splashes.
Ensure adequate ventilation.
Do not smoke while handling product.

9 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight 58
Melting point -159 °C
Boiling point -12 °C
Critical temperature 135 °C
Relative density, gas 2 (air=1)
Relative density, liquid 0.59 (water=1)
Vapour Pressure 20°C 3 bar
Solubility mg/l water 54 mg/l
Appearance/Colour Colourless gas
Odour Sweetish
Poor warning properties at low concentrations.

Flammability range 1.8-8.5 vol% in air.
Autoignition temperature 460 °C

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Other data

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY

Stability and reactivity

Can form explosive mixture with air.

May react violently with oxidants.

11 TOXICOLOGICAL INFORMATION

General

In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.

12 ECOLOGICAL INFORMATION

General

No known ecological damage caused by this product.

13 DISPOSAL CONSIDERATIONS

General

Do not discharge into areas where there is a risk of forming an explosive mixture with air.

Waste gas should be flared through a suitable burner with flash back arrestor.

Do not discharge into any place where its accumulation could be dangerous.

Contact supplier if guidance is required.

14 TRANSPORT INFORMATION

Proper shipping name

RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES)

UN Nr

2037

Class

2

ADR/RID Classification code

5F

Packing group

None

Labelling ADR

Label 2.1: flammable gas

IMDG EmS codes

F-D, S-U

IMDG Marine pollutant

No

IATA passenger packing instruction

Y203/203

IATA passenger max. quantity/pack

1kg/1kg

IATA cargo packing instruction

200

IATA cargo max. quantity/pack

15kg

Other transport information

Avoid transport on vehicles where the load space is not separated from the driver's compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Before transporting product containers ensure that they are firmly secured and:

- cylinder valve is closed and not leaking

- valve outlet cap nut or plug (where provided) is correctly fitted

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- valve protection device (where provided) is correctly fitted
- there is adequate ventilation.
- compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548	601-004-00-0.
EC Classification	F+;R12
-Symbols	F+: Extremely flammable
Labelling of cylinders	
-Symbols	Label 2.1: flammable gas
-Risk phrases	R12 Extremely flammable.
-Safety phrases	S9 Keep container in well ventilated place. S16 Keep away from ignition sources - No smoking.

16 OTHER INFORMATION

Ensure all national/local regulations are observed.

Ensure operators understand the flammability hazard.

Contact with liquid may cause cold burns/frost bite.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

Users of breathing apparatus must be trained.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

End of document.

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